

EXPRESS MAIL LABEL: EU823777280US

FISHING LURE

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CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] Pursuant to 35 U.S.C. § 119(a), this application claims the benefit of earlier filing date and right of priority to the Japanese Application No. U027000185, filed on July 11, 2002, the content of which is hereby incorporated by reference herein in its entirety.

BACKGROUND OF THE INVENTION

1. Field of the Invention

[0002] The present invention relates to a fishing lure used for fishing and, more particularly, a fishing lure which retains its outward appearance and which can move while bending like a fish during use.

2. Description of the Related Art

[0003] A common artificial lure is made of plastic shaped like a small fish, shrimp, bug or insect, and used as bait for catching fish. The lure is attached to a fishing line instead of live bait. Plastic lures typically comprise of one piece are hard and so retained a finite shape, and the plastic body does not bend or twist like a live bait when in use. There are lures which appear to bend because the lure body comprises of a number of hard and soft components and pieces connected together. However, since the bodies of these lures do not comprise of one piece, some of them do not give the outward appearance of a fish or small animal.

[0004] Furthermore, plastic lures that are constructed of the above-mentioned hard and soft joint components are, typically, problematic because the head portion of the small fishing lure comprises of a hard component, with the fishing hook being able to be attached to this hard component. As a result, this type of plastic lure is not suitable for catching fish that bite the backside of the lure body, comprising a soft component.

SUMMARY

[0005] In accordance with one or more embodiments of the invention, a lure comprises a portion that is soft, and made of soft plastic, soft silicon or soft rubber. The lure body can repeatedly bend. The lure body comprises of a hard portion and a soft portion, and the hard portion is covered by the soft portion. The hard portion is made of separate hard components connected to one another by at least one elastic component which has elasticity, such that the lure body can bend approximately 30 degrees or more around the elastic component.

[0006] In some embodiments the hard components are located on the end portions of the body in laterally opposite directions, for example. Hooks are attached to the hard components. The elastic component can comprise of a wire, or other elastic material with similar properties. The elastic component, in one embodiment comprises a linear portion and a board-shaped portion made from a metallic alloy, for example.

[0007] In one embodiment, a fishing lure comprises a lure body comprising a hard portion and a soft portion, wherein the soft portion houses the hard portion, and wherein the hard portion comprises at least two separate components joined by an elastic component for allowing the lure body to flex. A fishing line attachment component may be attached to one of said at least two separate components for allowing a fishing line to be connected to the lure body. A hook attachment component may be attached to one of said at least two separate components for allowing a hook to be connected to the lure body.

[0008] In some embodiments, the lure body is an elongated body with one of each of the at least two separate components positioned at the elongated body's opposite ends. The at least two separate components have a composition strength that can withstand forces associated with fishing without breaking. The elastic component may be a wire or a blade-shaped mechanism having a composition strength that can withstand forces associated with fishing and repetitive bending without breaking. The elastic component has a biasing property for allowing the lure body to bend approximately 30 degrees or at least approximately 30 degrees.

[0009] In certain embodiments, a fishing lure in accordance with the invention comprises an elongated lure body comprising at least first and second hard components positioned at opposite ends of the elongated lure body and a soft cover for housing the at least first and second hard portions, the at least first and second hard portions joined by an elastic component, such that the lure body can bend around the elastic component. The elastic component has an elastic property for allowing the lure body to bend at least 30 degrees to imitate body positions of a live bait when moving.

[00010] A fishing line attachment component attaches to one of said at least first and second hard components for allowing a fishing line to be connected to the lure body. A hook attachment component attaches to one of said at least first and second hard components for allowing a hook to be connected to the lure body. The at least first and second hard components and the elastic component have a composition strength that can withstand forces associated with fishing and repetitive bending without breaking.

[00011] These and other embodiments of the present invention will also become readily apparent to those skilled in the art from the following detailed description of the embodiments having reference to the attached figures, the invention not being limited to any particular embodiments disclosed.

BRIEF DESCRIPTION OF THE DRAWINGS

[00012] The accompanying drawings, which are included to provide a further understanding of the invention and are incorporated in and constitute a part of this specification, illustrate embodiments of the invention and together with the description serve to explain the principles of the invention.

[00013] FIG. 1A is a side view of the invention showing the exterior form of the lure used as fishing bait, in accordance with one or more embodiments.

[00014] FIG. 1B is a cross-sectional view of the invention along the portion 1B – 1B, in accordance with one or more embodiments.

[00015] FIG. 1C is a cross-sectional view of the invention along the portion 1C – 1C, in accordance with one or more embodiments.

[00016] FIG. 1D is a side view of another embodiments of the invention, showing an exemplary interior construction of the invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

[00017] Referring to FIGS. 1A-1D, in accordance with one or more embodiments of the invention, a fishing lure 1 comprises a lure body 2, a head portion 3, a tail 4, a back 5, a belly 6, one or more eyeballs 7, one or more hard portions 8, one more soft portions 9, and at least one elastic component 10 connecting together the hard portions 8.

[00018] First and second hard components 11 and 12 are covered by the soft portions 9. Of course, it should be noted that other embodiments of the invention may comprise a plurality of hard portions 8 covered by a single soft portion 9, for example.

This design gives a monolithic outward appearance of a live bate even though the bate is constructed of more than one hard component.

[00019] Fishing line attachment ring components 13 are preferably attached to the fishing lure 1 to allow a fishing line to be attached to the fishing lure 1. Further, hook attachment ring components 14 and 15 are attached to the lure body 2, and preferably to the hard portions 8, to support the attachment of first and second hooks 16 and 17, respectively.

[00020] The soft portions 9 may comprise of soft plastic, soft silicon or soft rubber so that the lure body 2 can repeatedly bend during use in water current, for example. In certain embodiments, the hard portions 8 comprise at least two separate hard components 11, 12 connected to one another by an elastic component 10 which has elasticity, and the above-mentioned lure body can bend approximately 30 degrees or more around the elastic component 10.

[00021] In accordance with one embodiment, first and second hard components 11, 12 are laterally located on, for example, opposite ends of the lure body 2. First and second fishing hooks 16, 17, for example, are attached to said first and second hard components 11, 12, respectively.

[00022] The elastic component 10, in one embodiment, comprises of a biasing member. The biasing member can be an elastic wire, having a linear portion or it can be a blade having a board-shaped portion. The board-shaped portion may be made of a shape memory alloy. Shape memory alloy maintains a particular shape although it is flexible enough to bend in various directions. In one embodiment, the memory alloy is in shape of a fish, for example.

[00023] In some embodiments, first hard component 11 and second hard component 12 are located on opposite ends of the length of lure body 2. For example, the head portion 3 of the lure body 2 comprises of first hard component 11, while the tail portion 4 of lure body 2 comprises of the second hard component 12. In some embodiments, hard portion 8 of lure body 2 may include more than the first and second hard components 11, 12.

[00024] In addition to being connected by the elastic component 10, the first hard component 11 and second hard component 12 are surrounded by soft portion 9, as if the lure body 2 is made of flesh and bone. As such, the lure body 2 can bend freely and repeatedly around the elastic component 10. The elastic component 10 may be a linear wire, a piano string, a thin flexible blade, or other biasing member. The elastic component may be made for example of a memory alloy or other component that has a high degree of mechanical strength for being able to withstand repeated bending and twisting in the course of use.

[00025] In certain embodiments, hard components 11 and 12 are made of hard plastic, wood, metal alloy, or other durable material, for example. The hard components 11, 12 are strong enough to maintain a high degree of mechanical strength so that they can withstand the pull and force exerted upon them from respective fishing line and hook attachment components, during use.

[00026] The lure, according to the present invention, is of a simple structure, comprises a small number of components and is easy to manufacture. Since the lure can be mass-produced, it can be cost effective and economically profitable. Because the plastic lure includes a hard portion made of at least two separated components held together by an elastic component, the lure body seems as if it is made of flesh and bone, and it can bend freely and repeatedly around the elastic component. Also because, it is

possible to attach each of the hooks to the hard portions, more fish can be caught using the lure of the present invention.

[00027] As such, the fishing lure of the present invention solves the problems and flaws of the related art lures by being constructed and designed in such a way that a component made of hard plastic is covered with soft plastic so that the lure body retains a fish-like appearance, while the lure body can bend as if it is alive. Furthermore, using a plurality of hard components, a number of fishing hooks can be attached to the body of the plastic lure maximizing the chances of catching fish that try to bite the lure, from any end.

[00028] The embodiments described above are to be considered in all aspects as illustrative and not restrictive in any manner. Thus, other exemplary embodiments, architectures, and implementations that can support various aspects of the invention may be utilized without departing from the essential characteristics described herein. For example, certain embodiments of the invention may use components made all of plastic, other embodiments may use components made of plastic, silicon, or metal compositions. These and various other adaptations and combinations of features of the embodiments disclosed are within the scope of the invention. The invention is defined by the claims and their full scope of equivalents.